

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	2557	(postage or frank or mailing or shipping) near3 (mark or indicia or indicum or impression)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/02/07 09:34
2	BRS	L2	26	1 near5 (sample or void or invalid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/02/07 09:34
3	BRS	L3	18	2 near5 (print or printed or printing or create or created or creating or creation or build or built or generate or generated or generating or generation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/02/07 09:35
4	BRS	L4	0	2 near5 (sort or sorted or sorting or separate or separating or separated or separation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/02/07 09:36
5	BRS	L5	26	2 or 3 or 4  <i>Scanned T, Ab, Kwic all</i>	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/02/07 09:49
6	BRS	L6	2	((@pd<="19710101" not @pd<="19470101") and (705/401 or 705/408 or 705/410).ccls.)  <i>Scanned T, all</i>	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/02/07 09:50

	Document ID	Issue Date	Inventor	Current OR	Current XRef	Pages
1	EP 927956 A2	19990707	PIERCE, PERRY A et al.			8
2	EP 856816 A2	19980805	HERBERT, RAYMOND JOHN			8
3	US 6102592 A	20000815	Herbert; Raymond John	400/106	382/101; 705/405; 705/408	7

LS results

PUB-NO: EP000927956A2

DOCUMENT-IDENTIFIER: EP 927956 A2

TITLE: Method for removing funds from a postal security device

PUBN-DATE: July 7, 1999

INVENTOR-INFORMATION:

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INT-CL (IPC): G07B017/02

EUR-CL (EPC): G07B017/00 ; G07B017/00

ABSTRACT:

CHG DATE=19990803 STATUS=O> A method for removing postal funds from a postage meter (10) provides an accounting unit (20) of a postage meter (10) with indicium-related information which is invalid for mailing. The accounting unit (20) generates a digital signature, which is an encrypted value of the postal funds removed from the postage meter (10) and other postal data including the indicium-related information. The accounting unit (20) through a Host PC (12) sends to a data center (5) the amount of the postal funds removed from the postage meter (10) and the digital signature. The data center (5) verifies that the digital signature has been generated using the indicium-related information. The meter (10) is disabled when the digital signature cannot be verified. When the digital signature is verified a request for a refund is sent by the data center (5) to a postal authority. An example of the indicium-related information is an invalid destination postal code or an invalid origination postal code.

<IMAGE>

PUB-NO: EP000856816A2

DOCUMENT-IDENTIFIER: EP 856816 A2

TITLE: Method and apparatus for printing and prevention of copying of postage indicia

PUBN-DATE: August 5, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
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HERBERT, RAYMOND JOHN	GB
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INT-CL (IPC):	G07B017/00
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EUR-CL (EPC):	G07B017/00
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**ABSTRACT:**

CHG DATE=19990617 STATUS=O> Postage indicia (12) are printed on mail items (10) using an ink having a characteristic such that the ink is rendered invisible when subjected to light or light and heat of sufficient intensity. When an attempt is made to copy the imprint of a postage indicia (12) on a mail item for which proper accounting has been effected the imprint is subjected to a burst of light or light and heat and the ink becomes invisible and prevents copying of the imprint. The imprint of the postage indicium may overly and obscure a void mark (14) which becomes visible and is copied in the event of attempting to copy the original authentic postage indicium (12).  
<IMAGE>

US-PAT-NO: 6102592  
DOCUMENT-IDENTIFIER: US 6102592 A  
TITLE: Method and apparatus for printing and prevention of copying of postage indicia  
DATE-ISSUED: August 15, 2000  
INVENTOR-INFORMATION:  
NAME CITY STATE ZIP CODE COUNTRY  
Herbert; Raymond John Leigh-on-Sea N/A N/A GB  
US-CL-CURRENT: 400/106, 382/101, 705/405, 705/408

**ABSTRACT:** Postage indicia are printed on mail items using an ink having a characteristic such that the ink is rendered invisible when subjected to light or light and heat of sufficient intensity. When an attempt is made to copy the imprint of a postage indicia on a mail item for which proper accounting has been effected the imprint is subjected to a burst of light or light and heat and the ink becomes invisible and prevents copying of the imprint. The imprint of the postage indicium may overly and obscure a void mark which becomes visible and is copied in the event of attempting to copy the original authentic postage indicium.

12 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

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**Abstract Text - ABTX (1):** Postage indicia are printed on mail items using an ink having a characteristic such that the ink is rendered invisible when subjected to light or light and heat of sufficient intensity. When an attempt is made to copy the imprint of a postage indicia on a mail item for which proper accounting has been effected the imprint is subjected to a burst of light or light and heat and the ink becomes invisible and prevents copying of the imprint. The imprint of the postage indicium may overly and obscure a void mark which becomes visible and is copied in the event of attempting to copy the original authentic postage indicium.

**Drawing Description Text - DRTX (5):** FIG. 3 illustrates a mail item bearing a modified postage indicium imprinted to overly a void mark on the mail item,

**Detailed Description Text - DETX (4):** In addition to the use of ink which is rendered invisible by burst of light for printing the postage indicia, the imprint of the postage indicia in light responsive ink may be of a form and so located as to obscure at least a part of an imprint of a marking printed in normal ink indicating that the mail item is void. Under normal ambient light conditions the postage indicium is visible and the void mark is at least partially obscured. However when subjected to bursts of light in a photocopier the ink with which the postage indicia is printed is rendered invisible and transparent thereby revealing the void mark. Accordingly the postage indicium is not reproduced whereas the void mark is reproduced.

Detailed Description Text - DETX (5): An example of a void mark which can be obscured by a modified postage indicium is shown in FIG. 4. The mail item 10 is firstly imprinted with the void mark 14 illustrated in FIG. 4 and then the mail item is imprinted with a postage indicium of a form and so located as to overprint at least a portion of the void mark. For example the postage indicium 12 may be as illustrated in FIG. 3. The void mark 14 is printed with normal ink unaffected by bursts of light and the postage indicium 12 is printed with ink having the aforesaid characteristic so that the ink is rendered invisible when subjected to bursts of light of sufficient intensity. Accordingly under normal ambient light, the mail item appears as in FIG. 3 but when reproduction of the postage indicia is attempted a photocopy of the mail item appears as in FIG. 4 with no postage indicium but with the void mark 14 visible.

Detailed Description Text - DETX (6): While examples of postage indicium 12 and void mark 14 are illustrated in FIG. 3 and 4 it is to be understood that any desired form of postage indicium and void mark may be printed provided that the void mark is either obscured or rendered unrecognisable as a void mark. For example the void mark may be totally obscured by the postage indicium or parts of the void mark may remain unobscured and visible, these parts being selected such that they have no recognisable meaning and these parts may appear to be a part of the postage indicium.

Detailed Description Text - DETX (8): mark. The ink areas imprinted when printing the postage indicium are of such extent as to overprint required portions of the void marking even with misalignment, within a tolerance limit, of the printing of the void mark and the postage indicium. It will be appreciated that in this example of printed postage indicium and void mark, the characters 'V', 'O' and 'D' are totally obscured by portions of the imprint of the postage indicium whereas the character 'I' of the void mark is not overprinted and is visible to appear as part of the postage indicia. Thus the printing of the postage indicium may be such as to obscure all portions of the void mark or to obscure some portions of the void mark and to incorporate unobscured portions of the void mark as portions of the postage indicium.

Detailed Description Text - DETX (9): If desired the envelope may be pre-printed with a void mark which is subsequently overprinted when the envelope is processed by a postage meter. Alternatively the postage meter may be constructed and arranged to print firstly the void mark in normal ink and then to print the postage indicium with the aforesaid light responsive ink overlying the imprint of the void mark. A postage meter for printing both a void mark and a postage indicium on a mail item is illustrated diagrammatically in FIG. 5 to which reference will now be made.

Detailed Description Text - DETX (11): A motor controller 27 is controlled by the microprocessor 10 to control operation of motors 28 driving feeding means (not shown) for feeding a mail item 29 in the direction of arrow 30 past a first digital print head 31 and a second digital print head 32. Preferably the print heads are thermal print heads including selectively energisable thermal printing elements but may be other types of digital printing heads. Sensors 33 are provided to sense and monitor feeding of the mail item 29 past the print heads and to provide signals to the microprocessor to enable the

microprocessor to control feeding of the mail item and to effect selective energisation of the thermal print elements of the print heads 31, 32 from a power supply 34 at appropriate times. The microprocessor effects selective energisation of the printing elements of print head 31 to print the void mark, for example as shown in FIG. 4 and effects selective energisation of the printing elements of print head 32 to print a postage indicium, for example as shown in Fibre 3. Operation of the print head 32 is delayed relative to operation of print head 31 so that the postage indicium printed by the head overlies and obscures the void mark as explained hereinbefore with reference to FIGS. 3 and 4. When it is desired to print an advertising slogan 13, the slogan would usually be printed by the print head 32 used to print the postage indicium and hence the slogan will not be reproduced in an attempt to photocopy the postage indicium. However if desired the slogan 13 may be printed by the print head 31 and the slogan will be reproduced together with the void mark 14.

Claims Text - CLTX (3): 3. A method as claimed in claim 2 wherein the mail item bears a void mark and printing of the postage indicium is effected such that the imprint of the postage indicium overlies at least a part of the void mark to render the void mark unrecognisable in ambient light conditions and the imprint of the postage indicium when subjected to the burst of light is rendered invisible and transparent to reveal the void mark on the mail item.

Claims Text - CLTX (6): 6. A method as claimed in claim 5 wherein the mail item bears a void mark and printing of the postage indicium is effected such that the imprint of the postage indicium overlies at least a part of the void mark to render the void mark unrecognisable in ambient light conditions and the imprint of the postage indicium when subjected to the burst of light is rendered invisible and transparent to reveal the void mark on the mail item.

**PALM INTRANET****Inventor Information for 09/938117**

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